What is claimed is:

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A safety and arming apparatus for use with a projectile, comprising:
a magnetic sensing apparatus for determining the occurrence of at least two of the

events selected from the group consisting of muzzle exit, a predetermined spin rate, and a predetermined number of turns,

whereby upon the occurrence of the at least two events the fuze is armed.

- 2. The safety and arming apparatus of claim 1 further including a timer and wherein the magnetic sensing apparatus is programmed to arm the fuze only if the at least two events occur in a predetermined order in a predetermined time window.
- 3. The safety and arming apparatus of claim 1 wherein the at least two events are muzzle exit, spin rate, and turns in a predetermined time window.
- 4. The safety and arming apparatus of claim 1 wherein the at least two events are muzzle exit and a predetermined number of turns.
- 15 5. The safety and arming apparatus of claim 1 wherein the at least two events are a predetermined spin rate and a predetermined number of turns.
 - 6. The safety and arming apparatus of claim 1 wherein the at least two events are muzzle exit, a predetermined spin rate, and a predetermined number of turns.
- 7. The safety and arming apparatus of claim 2 further including a setback sensor and wherein the fuze is armed only if setback occurs and the at least two events occur in a predetermined order.
 - 8. The safety and arming apparatus of claim 7 wherein the fuze is armed only if muzzle exit occurs within a predetermined time window from when setback occurs.
- 9. The safety and arming apparatus of claim 1 wherein the fuze is armed only if the spin rate is between a predetermined minimum and maximum spin rate within a predetermined time window.
 - 10. A method for safing and arming a projectile, the steps comprising:
 - a) determining the occurrence of at least two of the events selected from the group consisting of muzzle exit, a predetermined spin rate, and a predetermined number of

turns,

- b) arming the fuze.
- 11. The method of claim 10 further including the step of arming the fuze only if a setback event occurs.
- 5 12. The method of claim 11 further including the step of arming the fuze only if the event of muzzle exit occurs within a predetermined time from when setback occurs.
 - 13. The method of claim 12 further including the step of arming the fuze only if the spin rate is between a predetermined minimum and maximum spin rate.
- 14. The method of claim 13 further including the step of arming the fuze only after theprojectile has turned a predetermined number of turns.